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TITLE: AIRCONDITIONING EQUIPMENT COMBINED WITH HOT  
WATER SUPPLY  
DEVICE

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INVENTOR-INFORMATION:

NAME

HAMA, HIROAKI

IMANISHI, MASAMI

ISHIKAWA, KOJI

ASSIGNEE-INFORMATION:

NAME

MITSUBISHI ELECTRIC CORP

COUNTRY

N/A

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ABSTRACT:

PURPOSE: To prevent the overloading and abnormal stop of the equipment from occurring by a method wherein the operation of a heat pump unit is stopped for a certain period of time in order to lower the temperture of an operating side heat exchanger and, after that, the cooling is put into operation when the equipment is changed-over from the hot water supply to the cooling in the airconditioning equipment combined with the hot water supply device utilizing the heat pump unit.

CONSTITUTION: When a hot water supply instruction switch is turned OFF during the hot water supply operation and changed-over to the cooling operation, the coil of an auxiliary relay for the instruction of hot water supply is deenergized and, as a result, a water circuit is changed-over to a hot water circuit 8 and yet the heat pump unit 1 is changed-over to a cooling operation mode as indicated with dash lines with an arrow head and at the same time the operation of a compressor 11 is stopped for a period of time set by a relay (not shown) in order to stop the operation of the heat pump unit 1 and on the contrary to put a circulating pump into operation. In such a manner as mentioned above, the water in the hot water circuit 8 is circulated to the operating side heat exchanger 13 so as to lower the temperature of the heat exchanger 13. After the elapse of a predetermined period of time, the compressor 11 is put into operation in order to start the cooling operation. Consequently, the overloading and abnormal stop of the equipment at the time, when the hot water supply is changed-over to the cooling, can be prevented.

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